

IN THE SPECIFICATION:

Please amend Paragraph 11 as follows:

According to one aspect of the invention, vibratory motion is used to perform the functions of devices described herein, namely, to move along a level surface, to climb up a smooth vertical or slanted wall, to move upside down on a ceiling, or to climb up a hollow tube. Another aspect of the invention comprises a solution to the problem of controlling the direction of such moving devices. Without directional control, the utility of a moving device is much reduced; and, with directional control, the method and device for which is taught by the present invention, it becomes possible to build devices which can be used for exploration of intricate spaces, under either remote control or control based on an on-board set of sensors and decision-making circuits. Such devices are A device according to the invention is expected to have various applications. One potential use is in the medical field, for example, in or with a partly or wholly self-propelled endoscope or other invasive medical device.

Please amend Paragraph 34 as follows:

Traveling waves, which are produced in the vibrating surface, can obviously produce translational motion as these waves progress from one end of the device to the other end. By alteration of the direction of these traveling waves, steering or directional control can be produced.

Please amend Paragraph 61 as follows:

Figure 2 is a cross-sectional view of the device shown in Figure 1 in position on a vertical surface 32. With the motor 12 activated, the device 34 will either remain in approximately one position, or it may slowly move in a direction along surface 32. If an external lateral force is applied to motor 12 or substrate 10, device 34 will tend to go in that direction. Also, device 34 may be configured as discussed above so that ~~vibtatory~~ vibratory action may result in directional control.